

IN THE CLAIMS:

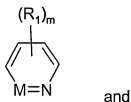
Please amend the claims as follows:

1. (Previously presented) A method of treating a trichomoniasis infection in a subject in need thereof, the method comprising administering to the subject an effective amount of a compound of Formula (I):

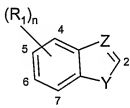


wherein:

$Ar_1$  is



$Ar_2$  is:



wherein:

M and N are each CH;

Z is N;

Y is  $NR_3$ , wherein  $R_3$  is selected from the group consisting of H, alkyl, and substituted alkyl;

m is an integer from 0 to 2;

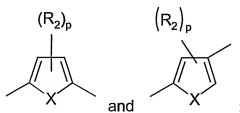
n is an integer from 0 to 3;

each  $R_1$  is independently selected from the group consisting of alkyl, substituted alkyl, halo, hydroxyl, alkoxy, aryl, substituted aryl, aryloxy, and aralkyloxy; and

wherein

Ar<sub>2</sub> is attached to L through a bond at carbon 2;

L is selected from the group consisting of:



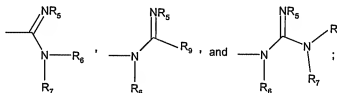
wherein:

p is an integer from 0 to 2;

X is S;

each R<sub>2</sub> is independently selected from the group consisting of alkyl, substituted alkyl, halo, hydroxyl, alkoxyl, aryl, substituted aryl, aryloxy, and aralkyloxy; and

A<sub>1</sub> and A<sub>2</sub> are each independently selected from the group consisting of:



wherein:

R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, and R<sub>9</sub> are each independently selected from the group consisting of H, alkyl, substituted alkyl, cycloalkyl, aryl, substituted aryl, aralkyl, hydroxyl, alkoxyl, hydroxyalkyl, hydroxycycloalkyl, alkoxycycloalkyl, aminoalkyl, acyloxy, alkylaminoalkyl, and alkoxycarbonyl; or

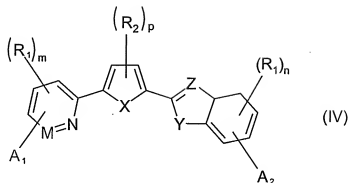
R<sub>5</sub> and R<sub>6</sub> together represent a C<sub>2</sub> to C<sub>10</sub> alkyl, C<sub>2</sub> to C<sub>10</sub> hydroxyalkyl, or C<sub>2</sub> to C<sub>10</sub> alkylene;

or a pharmaceutically acceptable salt thereof.

2-15. (Canceled)

16. (Previously presented) The method of Claim 1, wherein the compound of

Formula (I) is a compound of Formula (IV):



wherein:

M and N are each CH;

Z is N;

Y is NR<sub>3</sub>, wherein R<sub>3</sub> is selected from the group consisting of H, alkyl, and substituted alkyl;

m is an integer from 0 to 2;

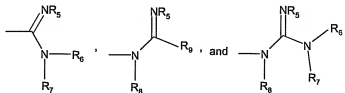
n is an integer from 0 to 3;

p is an integer from 0 to 2;

each R<sub>1</sub> and R<sub>2</sub> is independently selected from the group consisting of alkyl, substituted alkyl, halo, hydroxyl, alkoxy, aryl, substituted aryl, aryloxy, and aralkyloxy;

X is S; and

A<sub>1</sub> and A<sub>2</sub> are each independently selected from the group consisting of:



wherein:

R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, and R<sub>9</sub> are each independently selected from the group consisting of H, alkyl, substituted alkyl, cycloalkyl, aryl, substituted aryl, aralkyl, hydroxyl, alkoxy, hydroxyalkyl,

hydroxycycloalkyl, alkoxycycloalkyl, aminoalkyl, acyloxy, alkylaminoalkyl, and alkoxycarbonyl; or

R<sub>5</sub> and R<sub>6</sub> together represent a C<sub>2</sub> to C<sub>10</sub> alkyl, C<sub>2</sub> to C<sub>10</sub> hydroxyalkyl, or C<sub>2</sub> to C<sub>10</sub> alkylene;  
or a pharmaceutically acceptable salt thereof.

17. (Canceled)

18. (Previously presented) The method of Claim 16, wherein Y is NH.

19. (Canceled)

20. (Previously presented) The method of Claim 16, wherein A<sub>1</sub> and A<sub>2</sub> are each:



wherein R<sub>5</sub>, R<sub>6</sub> and R<sub>7</sub> are each H.

21. (Original) The method of Claim 16, wherein the compound is 2-(4-Amidinophenyl)-5-[2-(5-amidinobenzimidazolyl)]thiophene.

22. (Original) The method of Claim 1, wherein the trichomoniasis infection is caused by the protozoan parasite *Trichomonas vaginalis*.

23. (Currently amended) The method of Claim 1, wherein R<sub>5</sub> is selected from hydroxyl, alkoxy and acyloxy, and the compound of Formula (I) is a prodrug.

24. (Original) The method of Claim 1, wherein the compound of Formula (I) is administered in the form of a pharmaceutically acceptable salt.

25. (Previously presented) The method of Claim 24, wherein the pharmaceutically acceptable salt is a hydrochloride salt.

26. (Original) The method of Claim 1, wherein the subject is a human.

27. (Original) The method of Claim 1, comprising administering the compound of Formula (I) orally in one of a solid or a liquid formulation.

28. (Currently amended) ~~[[The]]~~ A method of claim—1, treating a trichomoniasis infection in a subject in need thereof, the method comprising administering to the subject an effective amount of a compound of Formula (I):



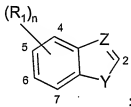
wherein:

Ar<sub>1</sub> is



and

Ar<sub>2</sub> is:



wherein:

M and N are each CH;

Z is N;

Y is NR<sub>3</sub>, wherein R<sub>3</sub> is selected from the group consisting of H, alkyl, and substituted alkyl;

m is an integer from 0 to 2;

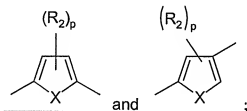
n is an integer from 0 to 3;

each  $R_1$  is independently selected from the group consisting of alkyl, substituted alkyl, halo, hydroxyl, alkoxy, aryl, substituted aryl, aryloxy, and aralkyloxy; and

wherein

$Ar_2$  is attached to L through a bond at carbon 2;

L is selected from the group consisting of:



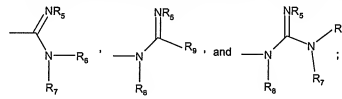
wherein:

p is an integer from 0 to 2;

X is S;

each  $R_2$  is independently selected from the group consisting of alkyl, substituted alkyl, halo, hydroxyl, alkoxy, aryl, substituted aryl, aryloxy, and aralkyloxy; and

$A_1$  and  $A_2$  are each independently selected from the group consisting of:



wherein:

$R_5$ ,  $R_6$ ,  $R_7$ ,  $R_8$ , and  $R_9$  are each independently selected from the group consisting of H, alkyl, substituted alkyl, cycloalkyl, aryl, substituted aryl, aralkyl, hydroxyl, alkoxy, hydroxyalkyl, hydroxycycloalkyl, alkoxycycloalkyl, aminoalkyl, acyloxy, alkylaminoalkyl, and alkoxy carbonyl; or

$R_5$  and  $R_6$  together represent a  $C_2$  to  $C_{10}$  alkyl,  $C_2$  to  $C_{10}$  hydroxyalkyl, or  $C_2$  to  $C_{10}$  alkylene;

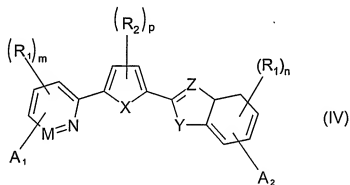
or a pharmaceutically acceptable salt thereof;

comprising administering wherein the compound is administered in a liposomal formulation.

29. (Original) The method of Claim 1, comprising administering the compound of Formula (I) to prevent or reduce the incidence of recurrence of the *T. vaginalis* infection.

30-43. (Canceled)

44. (New) A method of treating a trichomoniasis infection in a subject in need thereof, the method comprising administering to the subject an effective amount of a compound of Formula (IV):



wherein:

M and N are each CH;

Z is N;

Y is NH;

m is an integer from 0 to 2;

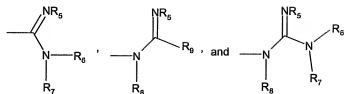
n is an integer from 0 to 3;

p is an integer from 0 to 2;

each  $R_1$  and  $R_2$  is independently selected from the group consisting of alkyl, halo, hydroxyl, alkoxyl, aryloxy, and aralkyloxy;

X is S; and

$A_1$  and  $A_2$  are each independently selected from the group consisting of:



wherein:

R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, and R<sub>9</sub> are each independently selected from the group consisting of H, alkyl, cycloalkyl, aryl, aralkyl, hydroxyl, alkoxy, hydroxyalkyl, hydroxycycloalkyl, alkoxycycloalkyl, aminoalkyl, acyloxy, alkylaminoalkyl, and alkoxycarbonyl; or

R<sub>5</sub> and R<sub>6</sub> together represent a C<sub>2</sub> to C<sub>10</sub> alkyl, C<sub>2</sub> to C<sub>10</sub> hydroxyalkyl, or C<sub>2</sub> to C<sub>10</sub> alkylene;  
or a pharmaceutically acceptable salt thereof.